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Amely C
8/1/02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : **Confirmation No. 6208**
Mitsuaki OSHIMA et al. : Docket No. 2000_1391
Serial No. 09/680,177 : Group Art Unit 2634
Filed October 5, 2000 : Examiner A. Le
COMMUNICATION SYSTEM :

AMENDMENT

THE COMMISSIONER IS AUTHORIZED
TO CHARGE ANY DEFICIENCY IN THE
FEES FOR THIS PAPER TO DEPOSIT
ACCOUNT NO. 23-0975

Assistant Commissioner for Patents,
Washington, D.C.

Sir,

In response to the Office Action of May 16, 2002, please amend the above-identified U.S. patent application as follows:

IN THE CLAIMS:

Please cancel claims 13-23 without prejudice or disclaimer to the subject matter therein.

Also, please add new claims 24-29 as follows.

24. A signal transmission apparatus comprising:
a first error correction code (ECC) encoder operable to ECC encode a first data stream to
produce an ECC encoded first data stream;
a second error correction code (ECC) encoder operable to ECC encode a second data stream
to produce an ECC encoded second data stream,
wherein the first ECC encoder is different from the second ECC encoder;
a modulator operable to assign each of the ECC encoded first data stream and the ECC
encoded second data stream to a respective constellation in a vector space diagram to produce
modulated signals wherein the number of signal points of the constellation for the ECC encoded first

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